HOW TO BUILD THE
STATUS API
OF YOUR MICROSERVICES ECOSYSTEM

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TODAY’S AGENDA

#1 SCENARIO

#2 SOLUTION DESIGN

#3 IMPLEMENTATION & TOOLING
"In most projects, the biggest challenge to solve is not technology, it’s communication."
SCENARIO
THE COMPANY

MuleSoft
"A TYPICAL DAY IN PRODUCTION"
WHAT IF WE
WHAT IF WE

#1

MULTIPLY TEAMS & SERVICES

BY 10X
WHAT IF WE

#1
MULTIPLY TEAMS & SERVICES BY 10X

#2
ADD DEPENDENCIES BETWEEN TEAMS & SERVICES
WHAT IF WE

#1 MULTIPLY TEAMS & SERVICES BY 10X

#2 ADD DEPENDENCIES BETWEEN TEAMS & SERVICES

#3 INCLUDE EXTERNAL SERVICES
"How can we quickly know all of this?"
I WANT TO KNOW IF..
USE CASES TO COVER

I WANT TO KNOW IF..

✔ MY SERVICE IS UP AND RUNNING
USE CASES TO COVER

I WANT TO KNOW IF..

✅ MY SERVICE IS UP AND RUNNING

✅ THE DEPENDENCIES OF MY SERVICE ARE UP AND RUNNING
USE CASES TO COVER

I WANT TO KNOW IF..

- My service is up and running
- The dependencies of my service are up and running
- ... and my service can reach its dependencies
USE CASES TO COVER

I WANT TO KNOW IF..

- MY SERVICE IS UP AND RUNNING
- THE DEPENDENCIES OF MY SERVICE ARE UP AND RUNNING
- ... AND MY SERVICE CAN REACH ITS DEPENDENCIES

FOR EVERYTHING ELSE, THERE’S New Relic®
THE SOLUTION
(ONE OF THEM)
SOLUTION’S RECIPE

#1 /PING ENDPOINT
#2 /READY ENDPOINT
#3 /STATUS ENDPOINT
#4 STATUS SERVICE  “to rule them all"
/PING

- CHECKS IF A SERVICE IS UP AND RUNNING (LIVENESS)
- LIGHTWEIGHT & PUBLIC
- USAGE: LOAD BALANCERS AND DEVELOPERS
/READY

- CHECKS IF A SERVICE CAN PROCESS REQUESTS (READINESS)
- RESTRICTED ACCESS
- USAGE: WARM-UP TIME, MAINTENANCE TIME, TBD
DOES NOT CHECK EXTERNAL DEPENDENCIES
/STATUS

- CHECKS READINESS OF SERVICE AND DEPENDENCIES
- RESTRICTED ACCESS & RATE LIMITED
- USAGE: INFORMATIVE (SERVICE & CONNECTIVITY ARE WORKING)
/STATUS

{  status: 'degraded'  deps: [...]}

CHECKS IF A SERVICE CAN REACH ITS DEPENDENCIES
STATUS SERVICE

- CHECKS STATUS OF A SERVICE & ITS DEPENDENCIES
- PROTECTED & RATE LIMITED
- USAGE: INFORMATIVE (STATUS OF THE ECOSYSTEM)
#1 A SERVICE IS UP AND READY

/ping & /ready
#1 A SERVICE IS UP AND READY
/ping & /ready

#2 A SERVICE CAN REACH ITS DEPENDENCIES
/status
#1 A SERVICE IS UP AND READY

#2 A SERVICE CAN REACH ITS DEPENDENCIES

#3 CHECK STATUS OF ENTIRE ECOSYSTEM

/ ping & /ready

/ status

Status Service
IMPLEMENTATION
& TOOLING
WHERE WE ARE

Design solution

Create API specification

Implement specification in apps

Create new tools & tune existing tools

“But if you are here it means that the hard part is already done”
API SPECIFICATION

OPEN API INITIATIVE

Google  IBM  Microsoft  MuleSoft  salesforce  SMARTBEAR
API SPECIFICATION

OPEN API INITIATIVE

Google  IBM  Microsoft  MuleSoft  salesforce  SMARTBEAR
REUSE COMMON LOGIC
IMPLEMENTATION

Java

node.js

osprey
/STATUS

{ status: "thank you" }

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